**Brexitmeter Bot Code**

- README for *live twitter polarity bot*-

What files in this repository:

**README\_brexitmeter.txt**

The present readme

**polarity\_bto.py**

The main file to run the bot

**get\_polarity.py**

A simple file that computes polarity of incoming tweet

**helper\_text.py**

A simple file with methods to format incoming tweets

to be sent through the neural network

**Final\_weights**

The folder you get from training the neural net. Contains model weights.

**Dictionnary**

The folder you get from training the neural net. Contains dictionaries.

**model.py**

The file containing model architecture. Loads dictionaries and weights.

**credentials.py**

A file containing your API credentials

**make\_gauge.py**

A simple file to generate the gauge .png image the bot will attach

to its answer

**Plots**

A folder in which plots will be stored

**up\_gauge.png**

The base gauge image file

1. **Introduction: what is the Brexitmeter code for?**

The code implements a live Twitter bot with which users can interact to score tweet polarities on a given topic (examples: Brexit, US elections, YellowVests). For each event there should be one bot. In other words, Brexitmeter cannot score tweets about US election, as it is.

1. **What output to expect?**

Once you run the code you might see updates printing in the shell as users query the bot. If you close the shell, the script dies and the bot stops answering to people. I ran it on MIT cluster. You could do the same on AWS.

1. **What input to feed the code?**

**First step = train some neural network on a new dataset**

Train the neural network on a new event. Get the model.py file, along with Final\_weights folder and Dictionary folder. Put that in this repository.

Then put your credentials in the credentials.py file.

You must now create a Twitter account for your bot, and make sure to change the

USER\_HANDLE = "@brexitmeter"

line of polarity\_bot.py to match the screen\_name of the newly created bot account.

Now you can almost run the code:

1. **Running the code:**

**Pre-installing dependencies**

Make sure to install the python libraries:

* tweepy
* PIL
* Keras

Finally simply run:

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